



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WESTERN REGIONAL OFFICE

436 Dwight Street • Springfield, Massachusetts 01103 • (413) 784-1100

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

January 16, 2009

Ida McDonnell, CAP
USEPA Region 1
1 Congress Street; Suite 1100
Boston, Massachusetts 02114-2023

Re: **Final Operating Permit Minor Modification**
Appl. #1-O-08-039; Trans. #X225845
[Ref. Appl. #1-O-95-106; Trans. #109047]
At: Specialty Minerals, Inc.
260 Columbia Street
Adams, MA 01220

Dear Ms. McDonnell:

In accordance with 310 CMR 7.00 - APPENDIX C(6) of the Massachusetts Air Pollution Control Regulations ("the Regulations"), the Department of Environmental Protection ("MassDEP") is forwarding to EPA and affected states the attached **Minor Modification** to the Final Operating Permit for Specialty Minerals, Inc. located at 260 Columbia Street in Adams, Massachusetts.

The attached **Minor Modification** to the Final Operating Permit is for incorporation of the permit requirements contained in MassDEP Approval #1-P-08-035 approved 12/4/2008 for the installation and operation of an in-line Kek Sifter. The increase in particulate emissions allowed under this Approval is < 200 lb/yr.

If you have any questions concerning this **Minor Modification** to the Final Operating Permit, please contact John Kirzec at (413) 755-2225 at your earliest convenience.

Sincerely,

This final document copy is being provided to you electronically by the
Department of Environmental Protection. A signed copy of this document
is on file at the DEP office listed on the letterhead.

Marc Simpson
Permit Chief
Western Region

JK/jk
specialtyminerals minormod 2009-01-16.doc

cc: Dave Buttelman, Environmental Manager,
Specialty Minerals, Inc.
260 Columbia Street
Adams, Massachusetts 01220





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AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]:

Specialty Minerals, Inc.
260 Columbia Street
Adams, MA 01220

INFORMATION RELIED UPON:

[Ref. Appl. #1-O-95-106; Trans. #109047]
Appl. #1-O-08-039; Trans. #X225845
Operating Permit Minor Modification

FACILITY LOCATION:

Specialty Minerals, Inc.
260 Columbia Street
Adams, MA 01220

FACILITY IDENTIFYING NUMBERS:

AQ ID #: 117-042
FMF FAC #: 130060
FMF RO #: 50789

NATURE OF BUSINESS:

Lime Manufacturing; Mining &
Quarrying of Nonmetallic Minerals

STANDARD INDUSTRIAL CODE (SIC):

1422, 2819 and 3274

RESPONSIBLE OFFICIAL:

Name: James R. Mulkey
Title: Plant Manager

FACILITY CONTACT PERSON:

Name: Dave Buttelman
Title: Environmental Manager
Phone: (413) 743-6279

This operating permit shall expire on January 25, 2010

For the Department of Environmental Protection

This final document copy is being provided to you electronically by the
Department of Environmental Protection. A signed copy of this document
is on file at the DEP office listed on the letterhead.

Michael Gorski
Regional Director
Department of Environmental Protection
Western Regional Office

January 16, 2009

Date



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SPECIAL CONDITIONS FOR OPERATING PERMIT

A Legend to Abbreviated Terms found in the following Tables is located in Section 28 of the Operating Permit.

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00:Appendix C and applicable rules and regulations, the Permittee is authorized to operate air emission units as shown in Table 1 and exempt, and insignificant activities as described in 310 CMR 7.00:Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this permit.

DESCRIPTION OF FACILITY AND OPERATIONS

Specialty Minerals Inc. (SMI) owns and operates a limestone quarry and processing facility located in Adams, MA. SMI mines limestone from an open pit quarry, crushes the stone and produces a number of products used in a wide variety of industries. Some of the crushed stone is milled (fine-grinding) to produce high-grade limestone products. Another portion of the crushed stone is calcined in SMI's lime kilns to produce calcium oxide (lime). A portion of the lime is then recarbonated to produce Precipitated Calcium Carbonate (PCC).

In addition to the quarrying and production operations, there are a number of supporting operations at the SMI facility. SMI owns and operates a Cogeneration facility to provide steam and a portion of the electricity to the facility. SMI also has a backup boiler which can be used to produce steam (but not electricity), if needed. Finally, SMI operates a wastewater treatment facility to neutralize the alkalinity and remove the suspended solids in the process effluent produced by the facility.

2. EMISSION UNIT IDENTIFICATION

The following emission units (Table 1) are subject to and regulated by this operating permit:

Table 1				
EU ¹	Description of EU	EU Design Capacity	Stack ID	Pollution Control Device (PCD)
EU 1	Cooper Bessimer Model # LSVB-16-GDT Cogen engine	4.85 MW	CG-1	Selective catalytic reduction (SCR) & CO catalyst
EU 2	Boiler #1; Cleaver Brooks Model CB100X-300	12.2 MMBtu/hr	CG-2	None
EU 3	Kiln #1 and Ancillary Equipment; Dorr-Oliver Model CE137	20.9 MMBtu/hr	FS-1	multicyclone & venturi scrubber
EU 4	Kiln #2 and Ancillary Equipment; Dorr-Oliver Model CE137	22.3 MMBtu/hr	FS-2	cyclone & venturi scrubber
EU 5	Kiln #3 and Ancillary Equipment; Dorr-Oliver Model "Doroco Fluosolids System"	37.7 MMBtu/hr	FS-3	cyclone & venturi scrubber
EU 6	Kiln #4 and Ancillary Equipment; Dorr-Oliver Model "Doroco Fluosolids System"	39 MMBtu/hr	FS-4	cyclone & venturi scrubber
EU 7	Belt Dryer #4; Proctor & Schwartz Model K-13364-65	14 MMBtu/hr	G-15	Fabric filter
EU 8	Belt Dryer #5; Proctor & Schwartz Model K-2612	16 MMBtu/hr	G-4S	Fabric filter
EU 9	Atritor Dryer #1; Atritor Model 20A	14.5 MMBtu/hr	F-23	Fabric filter

Table 1 (continued)				
EU¹	Description of EU	EU Design Capacity	Stack ID	Pollution Control Device (PCD)
EU 10	Flash Dryer #1; Combustion Engineering	10.3 MMBtu/hr	F-3	Fabric filter
EU 11	Flash Dryer #2; Combustion Engineering	10.3 MMBtu/hr	F-9	Fabric filter
EU 12	Fluid Bed Dryer; Dorr-Oliver	16.8 MMBtu/hr	A-5	Fabric filter
EU 13	Jaw Crusher KVE-Ken Model #160 Gyratory Crusher Allis Chalmers Model #10236	N/A	A-1	Fabric filter
EU 14	Hammermill Crusher Model #10236 Two (2) Tyler vibrating screens Model F-30	N/A	A-4	Fabric filter
EU 15	Tyler 800 screen Model F-30	N/A	A-2	Fabric filter
EU 16	Tee Pee	N/A	A-3	Fabric filter
EU 17	5 Mesh 500T	N/A	A-9	Fabric filter
EU 18	300 ton Dust Tank	N/A	A-13	Fabric filter
EU 19	#1 Raymond – Roller Mill	9 ton/hr	B-5	Fabric filter
EU 20	#2 Raymond – Roller Mill	30 ton/hr	B-6	Fabric filter
EU 21	#1 Patterson – Ball Mill	5.5 ton/hr	B-1	Fabric filter
EU 22	#2 Patterson (Pregrind) Ball-Mill	5.5 ton/hr	B-8	Fabric filter
EU 23	Majac #1 model 5/500 ATP	N/A	B-2	Fabric filter
EU 24	Majac #2 & #3 model 5/500 ATP	N/A	B-3	Fabric filter
EU 25	Alpine Classifier 5/500 ATP	N/A	B-11	Fabric filter
EU 26	ATF Shed – New South Tank	N/A	C-4	Fabric filter
EU 27	Vicron Packer – Black Diamond Two spout	N/A	D-11	Fabric filter
EU 28	ATF Pack Shed – St. Regis	N/A	C-10	Fabric filter
EU 29	#1 & #2 Kiln Feed Bins	N/A	E-1	Fabric filter
EU 30	#4 Kiln Feed Tank	N/A	E-3	Fabric filter
EU 31	Kiln Bldg, Derrick Screens	N/A	E-6	Fabric filter
EU 32	#4 Dryer Dry – T401	N/A	G-9	Fabric filter
EU 33	#5 Dryer Dry – T404	N/A	G-10	Fabric filter
EU 34	#4 Dryer Dry – T406	N/A	G-11	Fabric filter
EU 35	Albacar Tank – T408	N/A	G-12	Fabric filter
EU 36	Mikro-Atomizer #1 Model #8	N/A	F-19	Fabric filter
EU 37	Mikro-Atomizer #2 Model #8	N/A	F-21	Fabric filter
EU 38	Mikro-Atomizer #3 Model #8	N/A	F-25	Fabric filter
EU 39	Mikro-Atomizer #4 Model #8	N/A	F-26	Fabric filter
EU 40	Microsizers – Air Classifiers	N/A	B-15	Fabric filter
EU 41	Ambient Air Tubesheet – Cartridge Collector	N/A	B-16	Fabric filter
EU 42	Vicron Airslide – Loadout	N/A	C-15	Fabric filter
EU 43	LKD Truck to Rail Loadout	N/A	F-50	Fabric filter

Footnotes for Table 1

1. EU = Emission Unit

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2	
Description of Current Exempt Activities	Reason
The list of current exempt activities is contained in the Operating Permit application and shall be updated by the Permittee to reflect changes at the facility over the permit term. An up-to-date copy of exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00:Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. EMISSION LIMITS AND RESTRICTIONS

The permittee is subject to the emission limits/restrictions as contained in Tables 3a, 3b, 3c, 3d, and 3e below:

Table 3a					
EU #	Fuel or Raw Material	Restrictions	Pollutant	Emissions Limit/Standard	Applicable Regulation and/or Approval No.
EU 1	Dual fuel only (6 percent 0.05% #2 oil, 94 percent natural gas)	None	NO _x	≤ 0.5 g/bhp-hr; ≥ 90% reduction via SCR	Approval #1-B-04-013
			VOC	≤ 0.42 g/bhp-hr	
			Particulate Matter	≤ 0.066 lb/MMBtu	
			CO	≤ 0.34 g/bhp-hr	
			Sulfur in fuel	≤ 0.03 lb S/MMBtu (≈0.05% S by weight) #2 oil	
	0.05% S #2 oil only	None	NO _x	≤ 1.2 g/bhp-hr; ≥ 90% reduction via SCR ≤ 14.0 g/bhp-hr startup/shutdown	Approval #1-B-04-013
			VOC	≤ 0.16 g/bhp-hr	
			Particulate Matter	≤ 0.068 lb/MMBtu	
			CO	≤ 0.07 g/bhp/hr	
			Sulfur in fuel	≤ 0.03 lb S/MMBtu (≈0.05% S by weight) #2 oil	
	Dual fuel or 0.05% S #2 oil	None	NO _x	≤ 56.6 tons per year ⁽¹⁾	Approval #1-B-04-013
			VOC	≤ 27.2 tons per year ⁽¹⁾	
			Particulate Matter	≤ 13.1 tons per year ⁽¹⁾	
			PM ₁₀	≤ 19.6 tons per year ⁽¹⁾	
			Ammonia slip	≤ 10.0 ppmvd@ 15% O ₂	
			Smoke and Opacity	to be determined during emissions testing	
EU 2	natural gas 0.05% S #2 oil	None	PM ⁽²⁾	≤ 0.10 lb/MMBtu ⁽³⁾ #2 fuel oil ≤ 0.01 lb/MMBtu natural gas	310 CMR 7.02(8) Approval #1-P-04-019
			Visible	#1 of the Chart no more than 6 minutes during any one hour, no time to exceed #2 of the Chart	310 CMR 7.06(1)(a)
			Opacity	≤ 10% at all times boiler is in operation	Approval #1-P-04-019
			Sulfur in fuel	≤ 0.05 % S by weight	Approval #1-P-04-019

Table 3b

EU #	Fuel or Raw Material	Restrictions	Pollutant	Emissions Limit/Standard	Applicable Regulation and/or Approval No.
EU 3, EU 4, EU 5, EU 6	0.05% S #2 oil #6 oil/waste oil	< 500 gal waste oil at any one time or during any week	PM ⁽²⁾	≤ 0.12 lb/MMBtu ⁽³⁾ (EU 3, EU 4 and EU 5) ≤ 0.10 lb/MMBtu ⁽³⁾ (EU 6)	310 CMR 7.02(8)
			Sulfur in fuel	≤ 0.03 lb S/MMBtu (≈0.05% S by weight) #2 oil ≤ 1.21 lb S/MMBtu (≈1.5% S by weight) #6 oil/waste oil	310 CMR 7.05(1)(a)2. 310 CMR 7.05(1)(a)1.
			Smoke	#1 of the Chart no more than 6 minutes during any one hour, at no time to exceed #2 of the Chart	310 CMR 7.06(1)(a)
			Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b) ⁶
EU 5	0.05% S #2 oil #6 oil/waste oil	< 500 gal waste oil at any one time or during any week	NO _x	≤ 1.5 lb/ton lime produced; ≤ 10.9 lb/hr	Approval #1-P-94-022 310 CMR 7.19(12)
			CO	≤ 200 ppmvd corrected to 3% oxygen	Approval #1-P-94-022 310 CMR 7.19(12)
			Oxygen and Temperature	Consistent with parameters established during most recent compliance demonstration test	Approval #1-P-94-022
EU 6	0.05% S #2 oil #6 oil/waste oil	< 500 gal waste oil at any one time or during any week	NO _x	≤ 1.5 lb/ton lime produced; ≤ 11.2 lb/hr	Approval #1-P-94-022
			CO	≤ 200 ppmvd corrected to 3% oxygen	Approval #1-P-94-022
			Oxygen and Temperature	Consistent with parameters established during most recent compliance demonstration test	Approval #1-P-94-022
EU 7, EU 8, EU 9, EU 10, EU 11	Natural Gas 0.05% S #2 oil (Natural Gas only for EU 8)	None	Smoke	#1 of the Chart no more than 6 minutes during any one hour, at no time to exceed # 2 of the Chart	310 CMR 7.06(1)(a)
			Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
EU 7, EU 10, EU 11	0.05% S #2 oil	None	Sulfur in fuel	≤ 0.03 lb S/MMBtu (≈0.05% S by weight) #2 oil	310 CMR 7.05(1)(a)2.
EU 7	Natural Gas 0.05% S #2 oil	None	PM	≤ 0.02 gr/ACF; ≤ 0.69 lb/hr; ≤ 3.00 tons per year ⁽¹⁾	Approval #B-80-IF-014
EU 8	Natural Gas	None	PM	≤ 0.01 gr/ACF; ≤ 0.69 lb/hr; ≤ 3.00 tons per year ⁽¹⁾	Approval #1-P-00-054

Table 3c					
EU #	Fuel or Raw Material	Restrictions	Pollutant	Emissions Limit/Standard	Applicable Regulation and/or Approval No.
EU 9	Natural Gas 0.05% S #2 oil	None	NO _x	≤ 1.44 lb/hr; ≤ 6.31 tons per year ⁽¹⁾	Approval #1-P-91-009
			SO ₂	≤ 0.93 lb/hr; ≤ 4.07 tons per year ⁽¹⁾	
			Sulfur in fuel	≤ 0.03 lb S/MMBtu (≈0.05% S by weight) #2 oil	
EU 10	Natural Gas 0.05% S #2 oil	None	PM	≤ 3.69 lb/hr	Approval letter issued June 21, 1977.
EU 11	0.05% S #2 oil	None	PM	≤ 0.02 gr/ACF; ≤ 3.17 lb/hr; ≤ 13.89 tons per year ⁽¹⁾	Transmittal #109047
EU 12	0.05% S #2 oil	None	PM	≤ 0.02 gr/ACF; ≤ 2.06 lb/hr; ≤ 9.01 tons per year ⁽¹⁾	Transmittal #109047
EU 13	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672
			Opacity	≤ 7% opacity at all times	Approval #1-P-00-009
EU 14	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-044
			Opacity	≤ 7% opacity at all times	
EU 15	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-042
			Opacity	≤ 7% opacity at all times	
EU 16	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-043
			Opacity	≤ 7% opacity at all times	
EU 17	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-046
			Opacity	≤ 7% opacity at all times	
EU 18	Limestone		Opacity	≤ 7% opacity at all times	40 CFR 60.672 Approval #1-P-04-018
			PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672 Approval #1-P-04-018
EU 19, EU 20	Limestone	EU 19 – 9 tph ⁽⁴⁾ EU 20 – 30tph ⁽⁴⁾	PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-03-043 Approval #1-P-08-035 (EU 20 only)
			Opacity	≤ 7% opacity at all times	40 CFR 60.672
EU 21	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-047
			Opacity	≤ 7% opacity at all times	

Table 3d					
EU #	Fuel or Raw Material	Restrictions	Pollutant	Emissions Limit/Standard	Applicable Regulation and/or Approval No.
EU 22	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-049
			Opacity	$\leq 7\%$ opacity at all times	
EU 23	Limestone		PM	≤ 0.02 gr/ACF; ≤ 1.03 lb/hr; ≤ 4.51 tons per year ⁽¹⁾	Transmittal #109047
EU 24	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672 Approval #1-P-00-048
			Opacity	$\leq 7\%$ opacity at all times	
EU 25	Limestone		PM	≤ 0.01 gr/ACF; ≤ 0.27 lb/hr	Transmittal #109047
EU 26	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-050
			Opacity	$\leq 7\%$ opacity at all times	
EU 27	Limestone		PM	≤ 0.005 gr/ACF; ≤ 0.3 lb/hr	Approval #B-83-IF-003 Transmittal #109047
			Opacity	$\leq 20\%$, except 20 to $\leq 40\%$ for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
EU 28	Limestone		PM	≤ 0.01 gr/ACF	Approval #B-80-IF-001
			Opacity	$\leq 20\%$, except 20 to $\leq 40\%$ for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
EU 29	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-051
			Opacity	$\leq 7\%$ opacity at all times	
EU 30	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-00-052
			Opacity	$\leq 7\%$ opacity at all times	
EU 31	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-04-020
			Opacity	$\leq 7\%$ opacity at all times	
EU 32, EU 33, EU 34, EU 35	PCC ⁽⁵⁾		Opacity	$\leq 20\%$, except 20 to $\leq 40\%$ for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)

Table 3e					
EU #	Fuel or Raw Material	Restrictions	Pollutant	Emissions Limit/Standard	Applicable Regulation and/or Approval No.
EU 36, EU 37	PCC ⁽⁵⁾		Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour	310 CMR 7.06(1)(b)
EU 37	PCC ⁽⁵⁾		PM	≤ 0.02 grains/actual cubic foot	Transmittal #109047
EU 38	PCC ⁽⁵⁾		PM	≤ 0.02 grains/actual cubic foot	Approval #1-P-91-012
EU 39	PCC ⁽⁵⁾		PM	≤ 0.02 grains/actual cubic foot	Approval #1-P-92-002
EU 40	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672
			Opacity	≤ 7% opacity at all times	Approval #1-P-00-025
EU 41	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672
			Opacity	≤ 7% opacity at all times	Approval #1-P-00-024
EU 42	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	40 CFR 60.672
			Opacity	≤ 7% opacity at all times	Approval #1-P-02-048
EU 43	Limestone		PM	≤ 0.05 grams/dry standard cubic meter	Approval #1-P-02-020
			Opacity	≤ 7% opacity at all times	

Table 3 Notes:

- (1) Based on a rolling 12 month total
- (2) Particulate matter measured according to applicable procedures specified in 40 CFR Part 60 Appendix A, Method 5.
- (3) Based on a one-hour average
- (4) tph = tons per hour
- (5) PCC = Precipitated calcium carbonate
- (6) Specialty Minerals submitted a detailed startup procedure to the MassDEP on November 18, 2004 detailing operational methods employed to minimize opacity during startup.

B. COMPLIANCE DEMONSTRATION

The permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4, 5, and 6 below and 310 CMR 7.00 Appendix C (9) and (10) and applicable requirements contained in Table 3:

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU 1	<p>(1) In accordance with DEP approval #1-B-04-013, SMI shall monitor sulfur content of each new shipment of distillate oil received. Compliance with % sulfur-in-fuel requirements can be demonstrated through testing (<u>testing certification</u>) or by maintaining a shipping receipt from the fuel supplier (<u>shipping receipt certification</u>). The <u>testing certification or shipping receipt certification</u> of % sulfur-in-fuel shall document that sulfur testing has been done in accordance with the applicable ASTM test methods (D129-95, D1266-91, D1552-95, D2622-92, and D4294-90) or any other method approved by the MassDEP.</p> <p>(2) In accordance with DEP approval #1-B-04-013, SMI shall operate, calibrate, and maintain a data acquisition system(s) (DAS) and stack continuous emission monitor (CEM) to continuously monitor and record flue gas emissions of NO_x from the diesel cogen. The monitor shall be equipped with audible and visible alarms, which activate when emissions exceed the limits specified herein.</p> <p>(3) In accordance with DEP approval #1-B-04-013, SMI shall ensure that the NO_x monitor and recording equipment comply with MassDEP-approved performance and location specifications, and conform with the EPA monitoring specifications at 40 CFR Part 60.13 & 40 CFR Part 60 Appendices B and F.</p> <p>(4) In accordance with DEP approval #1-B-04-013, SMI shall develop a quality assurance/quality control (QA/QC) program for the long-term operation of the NO_x CEM which conforms to 40 CFR Part 60, Appendix F. The program must be submitted as part of the Standard Operating & Maintenance Plan ("SOMP").</p> <p>(5) In accordance with DEP approval #1-B-04-013, SMI shall maintain an inventory of spare parts for the NO_x CEM as recommended by the manufacturer.</p> <p>(6) In accordance with DEP approval #1-B-04-013, SMI shall operate, calibrate, and maintain, in accordance with the manufacturer's recommendations and 40 CFR Part 60, Appendix B, a continuous opacity monitor (COM) and recorder to continuously monitor and record the smoke density in the exhaust of the diesel cogen. The monitor shall be equipped with audible and visible alarms which activate when emissions exceed the limits specified herein.</p> <p>(7) In accordance with DEP approval #1-B-04-013, SMI shall perform, at a minimum, the maintenance/testing of the COM as specified in the Code of Federal Regulations 40 CFR 60, Appendix B, Performance Specification 1.</p> <p>(8) In accordance with DEP approval #1-B-04-013, SMI shall SMI shall maintain an inventory of spare parts for the COM as recommended by the manufacturer.</p> <p>(9) In accordance with DEP approval #1-B-04-013, SMI shall operate, calibrate, and maintain an SCR/CO catalyst temperature measurement system to continuously monitor and record the SCR/CO catalyst temperature. The monitor shall be equipped with audible and visible alarms, that activate when the SCR/CO catalyst temperature goes outside acceptable limits.</p> <p>(10) In accordance with DEP approval #1-B-04-013, SMI shall continuously monitor and record the differential pressure across the SCR/CO catalyst bed.</p>

Table 4 (continued)

EU#	MONITORING/TESTING REQUIREMENTS														
EU 1	<p>(11) In accordance with DEP approval #1-B-04-013, SMI shall continuously monitor and record on a daily basis the aqueous ammonia tank level.</p> <p>(12) In accordance with DEP approval #1-B-04-013, SMI shall ensure that the aqueous ammonia tank level never drops below 9% full.</p> <p>(13) In accordance with DEP approval #1-B-04-013, SMI shall use and maintain its NO_x, opacity, and SCR/CO catalyst temperature monitoring systems as "direct-compliance" monitors. "Direct-compliance" monitors generate data that legally documents the compliance status of a source.</p> <p>(14) In accordance with DEP approval #1-B-04-013, SMI shall operate the NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure monitors and recorders at all times the diesel cogen is operating, except for periods of calibration checks, zero and span adjustments, preventive maintenance, and malfunction(s).</p> <p>(15) In accordance with DEP approval #1-B-04-013, SMI shall ensure that all emission compliance testing is conducted in accordance with the MassDEP's "Guidelines for Source Emission Testing" and in accordance with the Environmental Protection Agency tests as specified in the 40 CFR Part 60, Appendix A, or by a methodology approved by the MassDEP.</p> <p>(16) In accordance with DEP approval #1-B-04-013, SMI shall conduct emission compliance tests at representative operating conditions (the diesel cogen has historically operated at close to 100% load continuously) to determine compliance with the emission limits (g/bhp-hr, lb/MMBtu, ppm, and opacity) established in Table 3 for the following:</p> <table data-bbox="305 1052 1458 1381"> <tr> <th data-bbox="305 1083 833 1119">Dual Fuel</th><th data-bbox="841 1083 1458 1119">100% oil</th></tr> <tr> <td data-bbox="305 1125 833 1161">Nitrogen Oxides</td><td data-bbox="841 1125 1458 1161">Nitrogen Oxides (including during startup)</td></tr> <tr> <td data-bbox="305 1167 833 1203">Carbon Monoxide</td><td data-bbox="841 1167 1458 1203">Carbon Monoxide</td></tr> <tr> <td data-bbox="305 1209 833 1245">Volatile Organic Compounds</td><td data-bbox="841 1209 1458 1245">Volatile Organic Compounds (including during startup)</td></tr> <tr> <td data-bbox="305 1251 833 1308">Particulate Matter/PM₁₀ (front-half & back-half catch)</td><td data-bbox="841 1251 1458 1308">Particulate Matter/PM₁₀ (front-half & back-half catch)</td></tr> <tr> <td data-bbox="305 1314 833 1350">Ammonia</td><td data-bbox="841 1314 1458 1350">Ammonia</td></tr> <tr> <td data-bbox="305 1356 833 1381">Opacity</td><td data-bbox="841 1356 1458 1381">Opacity (including during startup)</td></tr> </table> <p>(17) In accordance with DEP approval #1-B-04-013,, SMI shall ensure that compliance emission testing for particulate matter ("PM") measure the 'front-half' portion of particulate matter collected by the USEPA Method 5 sampling train, and that compliance emission testing for PM₁₀ measure the 'front-half' and 'back-half' (condensable) portion of particulate matter collected by the USEPA Method 5 or PM₁₀ sampling train.</p> <p>The sum of the front-half and back-half particulate matter collected will be used for a determination of applicability of the federal Prevention of Significant Deterioration (PSD) program.</p> <p>(18) In accordance with DEP approval #1-B-04-013, SMI shall ensure that all emission compliance tests are completed within 180 days after initial start-up of the facility.</p>	Dual Fuel	100% oil	Nitrogen Oxides	Nitrogen Oxides (including during startup)	Carbon Monoxide	Carbon Monoxide	Volatile Organic Compounds	Volatile Organic Compounds (including during startup)	Particulate Matter/PM ₁₀ (front-half & back-half catch)	Particulate Matter/PM ₁₀ (front-half & back-half catch)	Ammonia	Ammonia	Opacity	Opacity (including during startup)
Dual Fuel	100% oil														
Nitrogen Oxides	Nitrogen Oxides (including during startup)														
Carbon Monoxide	Carbon Monoxide														
Volatile Organic Compounds	Volatile Organic Compounds (including during startup)														
Particulate Matter/PM ₁₀ (front-half & back-half catch)	Particulate Matter/PM ₁₀ (front-half & back-half catch)														
Ammonia	Ammonia														
Opacity	Opacity (including during startup)														

Table 4 (continued)

EU#	MONITORING/TESTING REQUIREMENTS
EU 1, EU 2, EU 3, EU 4, EU 5, EU 6, EU 7, EU 9, EU 10, EU 11, EU 12	<p>(19) In accordance with 310 CMR 7.04(4)(a), SMI shall inspect and maintain the emission unit in accordance with the manufacturer's recommendations, and shall test it for efficient operation at least once in each calendar year. The results of said inspection, maintenance and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the equipment.</p> <p>(20) In accordance with 310 CMR 7.00 Appendix C(9)(b), SMI shall monitor sulfur content of each new shipment of oil received. Compliance with % sulfur-in-fuel requirements can be demonstrated by maintaining a shipping receipt from the fuel supplier (<u>shipping receipt certification</u>) or through testing (<u>testing certification</u>). The <u>shipping receipt certification</u> or <u>testing certification</u> of % sulfur-in-fuel shall document that sulfur testing has been done in accordance with the applicable ASTM test methods (D129-95, D1266-91, D1552-95, D2622-92, and D4294-90), or any other method approved by the MassDEP and EPA.</p>
EU 3, EU 4, EU 5, EU 6	<p>(21) In accordance with 310 CMR 7.04(9), SMI shall ensure that each emission unit achieves a minimum combustion efficiency of 99.5%.</p> <p>(22) In accordance with 310 CMR 7.00: Appendix C(9)(b), SMI shall maintain monitor and record all dates and volumes of waste oil additions to the 100,000 gallon #6 oil storage tank for each unit.</p>
EU 5, EU 6	<p>(23) In accordance with Approval #1-P-94-022 and 40 CFR 60, Appendix B, Performance specification 3, and Appendix F, SMI shall install, operate and maintain a continuous oxygen monitor and recorder in EU 5 and 6 to track the percent excess oxygen in the flue gas from the kilns.</p> <p>(24) In accordance with Approval #1-P-94-022, SMI shall continuously monitor temperature in EU 5 and EU 6 to verify compliance with temperature parameter established during the most recent NO_x compliance stack test.</p> <p>(25) In accordance with Approval #1-P-94-022, SMI shall continuously monitor the oxygen concentration and verify compliance with the oxygen concentration established during the most recent NO_x compliance stack test.</p> <p>(26) In accordance with Approval #1-P-94-022, SMI keep records of fuel use on at least a daily basis.</p> <p>(27) In accordance with Approval #1-P-94-022, SMI shall, at any future time upon request from the MassDEP, perform stack testing on EU 5 and EU 6 to demonstrate compliance with emission limits established herein. Stack testing shall be conducted in accordance with the appropriate test methods, as contained in 40 DFR 60, Appendix A.</p>
EU 18, EU 25	<p>(28) In accordance with 40 CFR 60.675, SMI shall use Method 5 or Method 17 to determine the particulate matter concentration. Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity with the following additions:</p> <ul style="list-style-type: none"> a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet) and b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g. road dust). The required observer position relative to the sun(Method 9, Section 2.1) must be followed. <p>(29) In accordance with 40 CFR 60.676(f), SMI shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance with 40 CFR 60.672(b).</p>

Table 4 (continued)

EU#	MONITORING/TESTING REQUIREMENTS
EU 20	<p>(30) In accordance with Approval #1-P-08-035, SMI shall not cause to be discharged into the atmosphere any visible fugitive emissions from any exit point of the Raymond Mill #2 Building (other than stack vents), as determined by a 75-minute Method 22 Visual Determination of Fugitive Emissions.</p> <p>The performance test shall be conducted within 60 days after startup of the Kek sifter, and while all affected facilities inside the building are operating. The performance test shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.</p>
EU 24	<p>(31) In accordance with Approval #1-P-00-048, SMI shall, in accordance with 310 CMR 7.13 <u>Stack Testing</u>, conduct stack testing for any air contaminant, upon request by the MassDEP, in accordance with the applicable procedures specified in 40 CFR 60 Appendix A, or other method if approved by the MassDEP and EPA.</p>
EU 26	<p>(32) In accordance with Approval #1-P-00-050, SMI shall, in accordance with 310 CMR 7.13 <u>Stack Testing</u>, conduct stack testing for any air contaminant, upon request by the MassDEP, in accordance with the applicable procedures specified in 40 CFR 60 Appendix A, or other method if approved by the MassDEP and EPA.</p>
EU 29	<p>(33) In accordance with Approval #1-P-00-051, SMI shall, in accordance with 310 CMR 7.13 <u>Stack Testing</u>, conduct stack testing for any air contaminant, upon request by the MassDEP, in accordance with the applicable procedures specified in 40 CFR 60 Appendix A, or other method if approved by the MassDEP and EPA.</p>
EU 31	<p>(34) In accordance with Approval #1-P-04-020, SMI shall, in accordance with 310 CMR 7.13 <u>Stack Testing</u>, conduct stack testing for any air contaminant, upon request by the MassDEP, in accordance with the applicable procedures specified in 40 CFR 60 Appendix A, or other method if approved by the MassDEP and EPA.</p>
Facility-wide	<p>(35) In accordance with 310 CMR 7.13, SMI shall conduct stack testing, upon written request of the MassDEP, for any air contaminant for which the MassDEP has determined testing is necessary, to ascertain compliance with the MassDEP's regulations or design approval provisos. All such testing shall be conducted in accordance with 310 CMR 7.13 (1) and (2), and in accordance with the applicable procedures specified in 40 CFR 60 Appendix A or other method(s) if approved by the MassDEP and EPA.</p> <p>(36) Emissions Compliance Testing (Stack Testing), shall be performed in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A (Method 7 for oxides of nitrogen (NO_x), Method 6 for sulfur dioxide (SO₂), Method 10 for carbon monoxide (CO), Methods 1 to 5 for TSP, Method 3A for Oxygen (O₂), Method 9 for opacity, or any other test method approved by the MassDEP or EPA). Prior to Stack Testing, appropriate testing ports shall be constructed so as to accommodate the requirements as stipulated in 40 CFR Part 60, Appendix A.</p> <p>(37) SMI shall monitor operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.</p>

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU 1	<p>(1) In accordance with DEP approval #1-B-04-013, SMI shall maintain daily records of the NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure monitors, and of the ammonia tank levels.</p> <p>(2) In accordance with DEP approval #1-B-04-013, SMI shall maintain records of the following:</p> <ul style="list-style-type: none"> a) pounds NO_x emitted each calendar month b) pounds NO_x emitted each continuous 12 month period c) grams NO_x/bhp-hr for each block hour. <p>(3) In accordance with DEP approval #1-B-04-013, SMI shall retain records of all NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure monitors for a minimum of 5 years from the date the record was taken and make said records available for MassDEP review upon request.</p> <p>(4) In accordance with DEP approval #1-B-04-013, SMI shall maintain records of the hours of NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure monitor downtime.</p> <p>(5) In accordance with DEP approval #1-B-04-013, SMI shall maintain a log to record problems, upsets or failures associated with the SCR control system and the NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure monitors.</p>
EU 2	<p>(6) In accordance with Approval #1-P-04-019, SMI shall maintain records of fuel type, fuel additives, and fuel usage (in gallons or cubic feet).</p> <p>(7) In accordance with Approval #1-P-04-019, SMI shall maintain records of routine maintenance activities on the boiler, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.</p> <p>(8) In accordance with Approval #1-P-04-019, SMI shall maintain records of all malfunctions of the boiler that change the amount of air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.</p>
EU 1, EU 2, EU 3, EU 4, EU 5, EU 6, EU 7, EU 9, EU 10, EU 11, EU 12	<p>(9) In accordance with 310 CMR 7.00: Appendix C(10)(b), SMI shall maintain copies of all fuel certifications or fuel oil analyses on-site for 5 years.</p>
EU 3, EU 4, EU 5, EU 6	<p>(10) In accordance with 310 CMR 7.00: Appendix C(10)(b), SMI shall maintain records of annual kiln inspections on-site for 5 years.</p> <p>(11) In accordance with 310 CMR 7.00: Appendix C(10)(b), SMI shall maintain records of dates and volumes of waste oil additions to the 100,000 gallon #6 oil storage tank.</p> <p>(12) In accordance with Approvals 1-B-93-026 and 1-B-94-126, SMI operate the reactor/carbonator such that there are no visible emissions, except water vapor, observed from the process stack.</p>
EU 5, EU 6	<p>(13) In accordance with Approval #1-P-94-022, SMI shall keep records of fuel use in EU 5 and 6 on at least a daily basis.</p> <p>(14) In accordance with Approval #1-P-94-022, SMI shall maintain a record of all measurements, performance evaluations, calibration checks and maintenance or adjustments for each continuous oxygen monitor.</p> <p>(15) In accordance with 310 CMR: Appendix C(10)(b), SMI shall maintain temperature monitoring records for these units to demonstrate compliance.</p>

EU 7, EU 8, EU 9, EU 10, EU 11, EU 12	(16) In accordance with 310 CMR 7.00: Appendix C(10)(b), SMI shall maintain records of annual dryer inspections on-site for 5 years.
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Table 5 (continued)	
EU#	RECORD KEEPING REQUIREMENTS
EU 8, EU 14, EU 15, EU 16, EU 17, EU 21, EU 22, EU 24, EU 26, EU 29, EU 30, EU 31	<p>(17) In accordance with Approval #1-P-00-054, Approval #1-P-00-044, Approval #1-P-00-042, Approval #1-P-00-043, Approval #1-P-00-046, Approval #1-P-00-047, Approval #1-P-00-049, Approval #1-P-00-048, Approval #1-P-00-050, Approval #1-P-00-051, Approval #1-P-00-052 and Approval #1-P-04-020 (as applicable), SMI shall maintain records or routine maintenance activities on the emission unit, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.</p> <p>(18) In accordance with Approval #1-P-00-054, Approval #1-P-00-044, Approval #1-P-00-042, Approval #1-P-00-043, Approval #1-P-00-046, Approval #1-P-00-047, Approval #1-P-00-049, Approval #1-P-00-048, Approval #1-P-00-050, Approval #1-P-00-051, Approval #1-P-00-052 and Approval #1-P-04-020 (as applicable), SMI shall maintain records of all malfunctions of the emission unit that could result in a change in air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.</p> <p>(19) In accordance with Approval #1-P-00-054, Approval #1-P-00-044, Approval #1-P-00-042, Approval #1-P-00-043, Approval #1-P-00-046, Approval #1-P-00-047, Approval #1-P-00-049, Approval #1-P-00-048, Approval #1-P-00-050, Approval #1-P-00-051, Approval #1-P-00-052 and Approval #1-P-04-020 (as applicable), SMI shall maintain all records up-to-date such that year -to-date information is readily available for MassDEP examination. Records shall be kept for at least five calendar years.</p>
EU 9	(20) In accordance with 1-P-91-009, SMI must maintain a logbook, which may be part of the operations log, to record maintenance activities and any system failures. This log should be maintained on site and made available for inspection on request.
EU 18, EU 25	(21) In accordance with 40 CFR 60.7, SMI shall comply with all notification requirements of this subpart and shall maintain records of occurrences and duration of any startup, shutdown, or malfunction.
EU 18, EU 19, EU 20	<p>(22) In accordance with Approval #1-P-04-018 and Approval #1-P-03-043, SMI shall maintain records of routine maintenance activities on the equipment, including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.</p> <p>(23) In accordance with Approval #1-P-04-018 and Approval #1-P-03-043, SMI shall maintain records of all malfunctions of the equipment that could result in a change in air emissions, including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance.</p>
EU 20	(24) In accordance with Approval #1-P-08-035, SMI shall maintain records of all Method 22 Visual Determination of Fugitive Emissions conducted on the Raymond #2 Mill Building. Records shall be kept for at least five calendar years.
Facility-Wide	<p>(25) In accordance with 310 CMR 7.00 Appendix C(10)(b), SMI shall maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date of the monitoring sample, measurement, report or initial operating permit application.</p> <p>(26) In accordance with 310 CMR 7.12, SMI shall maintain the records required to determine the nature and amounts of emissions from the facility.</p> <p>(27) In accordance with 310 CMR 7.12(3)(b), SMI shall maintain copies of Source Registration and other information supplied to the MassDEP to comply with 310 CMR 7.12 shall be retained by the facility owner or operator for five years from the date of submittal.</p>

Table 6	
EU#	REPORTING REQUIREMENTS
EU 1	<p>(1) In accordance with DEP approval #1-B-04-013, SMI shall submit to the MassDEP two summary reports (one by January 30 for the time period July-December of the previous calendar year, and the other by July 30 for the time period January-June of the current calendar year), in a format acceptable to the MassDEP, which minimally contains the following information:</p> <ul style="list-style-type: none"> a) Reports consisting of summary data for NO_x, opacity, SCR/CO catalyst temperature, and SCR differential pressure. b) For each period of excess emissions or excursions from allowable operating conditions, SMI shall list the duration, cause (including whether it is attributable to a malfunction or emergency), the response taken, and the amount of excess emissions. Periods of excess emissions shall include periods of startups/shutdowns, malfunctions, emergencies, and upsets or failures associated with the emission control system or monitors and, c) All periods of excess emissions, even if attributable to an emergency / malfunction or startup/shutdown, shall be quantified and included in the determination of annual emissions and compliance with the annual emission limits as stated in Table 3 of this Operating Permit. <p>(2) In accordance with DEP approval #1-B-04-013, SMI shall notify the MassDEP immediately by telephone and in writing within three (3) business days, following the release or the threat of a release of ammonia. SMI must comply with all notification procedures required under M.G.L. c. 21 E – Spill Notification Regulations, and the Massachusetts Contingency Plan, 310 CMR 40.0000.</p> <p>(3) In accordance with DEP approval #1-B-04-013, SMI shall submit a Limited Plan Application, describing the changes to the SOMP, to the MassDEP by December 31st of any calendar year in which changes to the SOMP were made.</p> <p>(4) In accordance with DEP approval #1-B-04-013,, SMI shall submit an emission compliance test protocol for review and written MassDEP approval at least 30 days prior to the date of actual testing.</p> <p>(5) In accordance with DEP approval #1-B-04-013,, SMI shall submit the final reports for the emission compliance tests to the MassDEP within 60 days after the completion of the tests.</p>
EU 5, EU 6	<p>(6) In accordance with 1-P-94-022, SMI shall submit a report to the MassDEP in writing no later than the 15th day of the following month if any limits in the provisions of 1-P-94-022 are exceeded. This report shall include the exact period the limit was exceeded, the suspected reason for exceeding the limit, and the action taken to correct the problem. The report will further address any date and period during which either continuous recorder is inoperable and the outage is not directly attributable to routine checks and maintenance.</p>
EU 9	<p>(7) In accordance with 1-P-91-009, SMI shall report any malfunction of the unit and the associated air pollution equipment which results in abnormal emission to the Western Regional Office in Springfield by telephone no later than the next working day and subsequently in writing (within 48 hours). Written reports will include a description of what happened and what steps have been taken to prevent similar events in the future.</p>
EU 18, EU 25	<p>(8) In accordance with 40 CFR 60.676(f), SMI shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672, including reports of opacity observations made using Method 9 to demonstrate compliance.</p>
EU 20	<p>(9) In accordance with Approval #1-P-08-035, SMI shall submit a written report to the MassDEP documenting the results of the initial Method 22 Visual Determination of Fugitive Emissions required by this Approval. The report shall include copies of the field data sheets.</p>

Facility Wide	<p>(10) SMI shall submit Annual Emission Statements in accordance with 310 CMR 7.12.</p> <p>(11) In accordance with 310 CMR 7.13(1) and 310 CMR 7.13(2), if and when the MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions, SMI shall cause such stack testing to be summarized, analyzed, and submitted to the MassDEP within such time frame as agreed to in the approved test protocol.</p> <p>(12) In accordance with 310 CMR 7.00 Appendix C(10)(a), SMI shall submit to the MassDEP any record relevant to this operating permit or to the emissions of any air contaminant from the facility within 30 days of the request by the MassDEP.</p>
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C. GENERAL APPLICABLE REQUIREMENTS

The permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et. seq. and 310 CMR 8.00 et. seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The permittee is currently not subject to the following requirements:

Table 7	
REGULATION	DESCRIPTION/REASON
310 CMR 7.16: Reduction of Single Occupant Commuter Vehicle Use	Not applicable
310 CMR 7.07 Open Burning	Not applicable
40 CFR Part 82 Stratospheric ozone	Not applicable
Section 112r of the Clean Air Act	Not applicable (facility not major for HAPs)

5. SPECIAL TERMS AND CONDITIONS

The permittee is subject to the following special provisions that are not contained in Table 3, 4, 5, and 6:

Table 8	
EU#	SPECIAL TERMS AND CONDITIONS
EU 1	<p>(1) In accordance with DEP approval #1-B-04-013, SMI shall ensure that the SCR control equipment for the diesel cogen is operational whenever the temperature to the SCR catalyst is $\geq 575^{\circ}\text{F}$.</p> <p>(2) In accordance with DEP approval #1-B-04-013, SMI shall allow the diesel cogen to operate with an SCR/CO catalyst temperature $< 575^{\circ}\text{F}$ only during start-ups, shutdowns and malfunctions. The duration of startups and shutdowns shall be no greater than 90 minutes.</p> <p>(3) In accordance with DEP approval #1-B-04-013, SMI shall ensure that designated personnel are trained to operate and maintain the diesel cogen's NO_x continuous emission monitor ("CEM") and continuous opacity monitor ("COM") in accordance with vendor specifications and all applicable regulations. This training shall be updated at least once annually, and SMI shall maintain a record of all personnel who have taken the CEM/COM training.</p>

EU 3, EU 4, EU 5, EU 6	<p>(4) In accordance with DEP approval #1-B-85-IF-006, SMI shall observe the following conditions for utilizing waste oil in Emission Unit #3, 4, 5 and 6:</p> <ul style="list-style-type: none"> a) Storage tank must be at least half full when each addition is made; b) Storage tank must be agitated by running the circulating pump whether or not supplying the kilns for 24 hours after each addition of waste oil; c) Between consecutive additions of waste oil, the 100,000 gallon storage tank must be drawn down by 50,000 gallons and refilled to at least half full. d) No more than 500 gallons of waste oil is allowed to be transferred to the 100,000 gallon storage tank at any one time or during any week (running period) <p>(5) In accordance with 310 CMR 7.05(8), shall burn only waste oil that complies with fuel oil specifications listed in Table 310 CMR 7.05(8).</p>
EU 13	<p>(6) In accordance with Approval #1-P-00-009, SMI shall operate the water sprays in the crusher building to the maximum extent possible, including during truck dumping, to minimize excessive visible emissions from the crushing operations inside the crusher building, except when prevented from doing so due to freezing ambient temperatures or when there is sufficient moisture already present in the crushed rock.</p>

Table 8 (continued)	
EU#	SPECIAL TERMS AND CONDITIONS
Facility Wide	<p>(7) In accordance with Approval #1-P-04-025, SMI shall ensure that the visible particulate emission detection and baghouse control equipment (B-PAC 100, B-PAC 1000, and B-PAC PC collectively referred to as "B-PAC") is operational at all times that the baghouse that the unit controls is being utilized and the B-PAC monitoring system is functional.</p> <p>If the B-PAC monitoring system is not functional for a specific baghouse, SMI shall perform, weather and process operation permitting, at least once for each calendar day that any process equipment that utilizes that specific baghouse is operating, a Modified Method 22 Visual Determination of Fugitive Emissions will be conducted. If a B-PAC system, for a baghouse with a stack located inside a process building, is not functional, Method 22 "Short Test" for fugitive emissions will be conducted on the process building. This observation will be conducted once per day until the B-PAC system is repaired. In this case no minimum observation is specified.</p> <p>The MassDEP requires that anyone performing the M-22s Test must be familiar with the process and must observe the stack long enough to be able to include in his observations any time-dependent process variations that may increase bin visible emissions.</p> <p>(8) In accordance with Approval #1-P-04-025, if visible emissions are noted by either the B-PAC monitoring system or by the M-22s Test, SMI shall implement the corrective procedures specified in the <u>Standard Operation and Maintenance procedure (SOMP)</u> submitted and report the visible emissions to the MassDEP.</p> <p>In accordance with the SOMP, if the visible emissions are not eliminated within 24 hours of their being observed, SMI must begin shutdown procedures (in accordance with the manufacturer's recommendations for an expeditious and safe shutdown) for the process responsible for the visible emissions until repairs are completed and visible emissions return to the baseline reading.</p> <p>(9) In accordance with Approval #1-P-04-025, SMI shall record the results of all M-22s Test observations performed a written log, and make this log available to the MassDEP upon request. This log shall minimally consist of the date, time of the observation, the reason the observation was being performed (why the B-PAC monitoring system was not available), the result of the observation, the specific location where any visible emissions were observed, the reason for the visible emissions, the time the visible emissions returned to baseline, the time any corrective action(s) were completed, and the initials of the person making the observation.</p>

6. ALTERNATIVE OPERATING SCENARIOS

The permittee did not request alternative operating scenarios in its operating permit application.

7. EMISSIONS TRADING

(a) Intra-facility emission trading

The facility did not request intra-facility emissions trading in its operating permit application.

Pursuant to 310 CMR 7.00: Appendix C(7)(b), emission trades, provided for in this permit, may be implemented provided the Permittee notifies The United States Environmental Protection Agency (EPA) and the MassDEP at least fifteen (15) days in advance of the proposed changes and the Permittee provides the information required in 310 CMR 7.00: Appendix C(7)(b)3.

Any intra-facility change that does not qualify pursuant to 310 CMR 7.00: Appendix C(7)(b)2 is required to be submitted to the MassDEP pursuant to 310 CMR 7.00: Appendix B.

(b) Inter-facility emission trading

The Permittee did not request inter-facility emissions trading in its operating permit application.

All increases in emissions due to emission trading, must be authorized under the applicable requirements of 310 CMR 7.00: Appendix B (the "Emissions Trading Program") and the 42 U.S.C. §7401 et seq. (the "Act"), and provided for in this permit.

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5.

In addition, the Permittee shall comply with any applicable requirements that become effective during the permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

The permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. COMPLIANCE CERTIFICATION

All documents submitted to the MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via the MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm#op>.

(a) Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Regional Administrator, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status and whether compliance was continuous or intermittent during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- iv. any additional information required by the MassDEP to determine the compliance status of the source.

(b) Semi-Annual Monitoring Summary Report and Certification

The Responsible Official shall certify, semi-annually on the calendar year, that the facility is in compliance with the requirements of this permit. The report shall be postmarked or delivered by January 30 and July 30 to the MassDEP. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- iv. whether there were any deviations during the reporting period;
- v. if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
- vi. whether deviations in the reporting period were previously reported;
- vii. if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
- viii. if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
- ix. any additional information required by the MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This permit does not relieve the permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this permit.

12. PERMIT SHIELD

- (a) This facility has a permit shield provided that it operates in compliance with the terms and conditions of this permit. Compliance with the terms and conditions of this permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the permittee's application and as identified in this permit.

Where there is a conflict between the terms and conditions of this permit and any earlier approval or permit, the terms and conditions of this permit control.

- (b) The MassDEP has determined that the permittee is not currently subject to the requirements listed in Section 4, Table 7.
- (c) Nothing in this permit shall alter or affect the following:
- i. the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - ii. the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or

- iii. the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the MassDEP, EPA and citizens as defined under the Act.

A Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

14. PERMIT TERM

This permit shall expire on the date specified on the cover page of this permit, which shall not be later than the date 5 years after issuance of this permit.

Permit expiration terminates the permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon the MassDEP's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by the MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the operating permit renewal application prior to this permit's expiration date, this permit shall remain in effect until the MassDEP takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

This permit may be modified, revoked, reopened, and reissued, or terminated for cause by the MassDEP and/or EPA. The responsible official of the facility may request that the MassDEP terminate the facility's operating permit for cause. The MassDEP will reopen and amend this permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the permittee for an operating permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any operating permit condition.

17. DUTY TO PROVIDE INFORMATION

Upon the MassDEP's written request, the permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall furnish to the MassDEP copies of records that the permittee is required to retain by this permit.

18. DUTY TO SUPPLEMENT

The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a complete renewal application was submitted but prior to release of a draft permit.

The permittee shall promptly, on discovery, report to the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This permit is not transferable by the permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no other change in the permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between current and new permittee, has been submitted to the MassDEP.

20. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

21. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the MassDEP, and EPA to perform the following:

- (a) enter upon the permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

- (d) Sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the operating permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

The permittee shall have available at the facility, at all times, a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the permit, including any amendments or attachments thereto, upon request by the MassDEP or EPA.

23. SEVERABILITY CLAUSE

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

24. EMERGENCY CONDITIONS

The permittee shall be shielded from enforcement action brought for noncompliance with technology based¹ emission limitations specified in this permit as a result of an emergency². In order to use emergency as an affirmative defense to an action brought for noncompliance, the permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- (b) the permitted facility was at the time being properly operated;
- (c) during the period of the emergency, the permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and
- (d) the permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

¹ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

² An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response, immediate notification to the appropriate parties should be made as required by law.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6 of this Operating Permit shall supercede the following deviation reporting requirements, if applicable.

The Permittee shall report to the MassDEP's Regional Bureau of Waste Prevention the following deviations from permit requirements, by telephone or fax, within three (3) days of discovery of such deviation:

- Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.
- Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the permit or approval as surrogate for an emission limit.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the Massachusetts MassDEP of Environmental Protection Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via the MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm#op>.

This report shall include the deviation, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone or fax within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations, which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The permittee is allowed to make changes at the facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the permit and in compliance with all applicable requirements provided the permittee gives the EPA and the MassDEP written notice fifteen days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(h) and (i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the facility's permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. MODIFICATIONS

- (a) Administrative Amendments – The permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).
- (b) Minor Modifications – The permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).
- (c) Significant Modifications – The permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).
- (d) No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this operating permit. A revision to the permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an operating permit revision under any other applicable requirement.

28. LEGEND OF ABBREVIATED TERMS IN OPERATING PERMIT

Not all abbreviations are present in every Operating Permit

10⁶ Btu/hr–1,000,000 Btu per hour

CEM–continuous emission monitor

CGA–cylinder gas audit

the Chart–the Ringelmann Scale for grading the density of smoke

CO–carbon monoxide

CO₂–carbon dioxide

COM–continuous opacity monitor

DAS–data acquisition system

EPA or USEPA –Environmental Protection Agency

FMF FAC. NO.–Facility Master File Number

FMF RO. NO.–Facility Master File Regulated Object Number

ft³–cubic feet

HHV–higher heating value

hr–hour

ISO–Represents 59° F, 60% Relative Humidity, 29.92 Inches Mercury At Sea Level

lb–pound

lb/MMBtu–pounds per million British thermal units

MMBtu/hr–million British thermal units per hour

MW–megawatt (1,000,000 watts)

ng–natural gas

NH₃–ammonia

NO_x–nitrogen oxides

PLT ID–Plant Identification

PM–particulate matter

ppm–parts per million

ppmvd–parts per million (by volume, dry)

PTE–potential to emit

RATA–relative accuracy test audit

SO₂–sulfur dioxide

tpy–tons per year

VOC–volatile organic compound

APPEAL CONDITIONS FOR OPERATING PERMIT

This permit is an action of the MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to the MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the facility must continue to comply with all existing federal and state applicable requirements to which the facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the facility shall not be in violation of the Act for operating without a permit.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the permit is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to The Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

The Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The request will be dismissed if the filing fee is not paid unless the appellant is exempt or granted a waiver as described below.

The filing fee is not required if the appellant is a city or town (or municipal agency) county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

The MassDEP may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.